

## Electronic Acknowledgement Receipt

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| <b>EFS ID:</b>                              | 5654422                                                                                                         |
| <b>Application Number:</b>                  | 10660998                                                                                                        |
| <b>International Application Number:</b>    |                                                                                                                 |
| <b>Confirmation Number:</b>                 | 7721                                                                                                            |
| <b>Title of Invention:</b>                  | METHODS FOR RAPID FORENSIC ANALYSIS OF MITOCHONDRIAL DNA AND CHARACTERIZATION OF MITOCHONDRIAL DNA HETEROPLASMY |
| <b>First Named Inventor/Applicant Name:</b> | David J. Ecker                                                                                                  |
| <b>Customer Number:</b>                     | 58057                                                                                                           |
| <b>Filer:</b>                               | Paul Andrew Jenny                                                                                               |
| <b>Filer Authorized By:</b>                 |                                                                                                                 |
| <b>Attorney Docket Number:</b>              | DIBIS-0002US.P5                                                                                                 |
| <b>Receipt Date:</b>                        | 07-JUL-2009                                                                                                     |
| <b>Filing Date:</b>                         | 12-SEP-2003                                                                                                     |
| <b>Time Stamp:</b>                          | 16:04:23                                                                                                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                                     |

### Payment information:

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| Submitted with Payment | no |
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### File Listing:

| Document Number | Document Description | File Name                      | File Size(Bytes)/<br>Message Digest                 | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|--------------------------------|-----------------------------------------------------|------------------|------------------|
| 1               | NPL Documents        | USOC_DIBIS0080US8_06172008.pdf | 1507994<br>9081b7d57363d9a057f75e1f3d89cb8877928e20 | no               | 38               |

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| 2            | NPL Documents | USOC_DIBIS0080US8_02262009.pdf   | 436899                                   | no | 14  |
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| 3            | NPL Documents | USOC_DIBIS0080US1_09142007.pdf   | 100000                                   | no | 2   |
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| 4            | NPL Documents | USOC_DIBIS0080US1_05022008.pdf   | 5409631                                  | no | 100 |
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| 5            | NPL Documents | USOC_DIBIS0080US1_10242008.pdf   | 75530                                    | no | 1   |
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| 6            | NPL Documents | USOC_DIBIS0080US1_01162009.pdf   | 2679469                                  | no | 52  |
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| 7            | NPL Documents | USOC_DIBIS0073USC1_04172009.pdf  | 2779169                                  | no | 44  |
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| 8            | NPL Documents | USOC_DIBIS0003USRE_06272008.pdf  | 10637894                                 | no | 217 |
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| 12           | NPL Documents | Evans_Practical_Algorithms.pdf  | 164059                                    | no | 2  |
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| 13           | NPL Documents | EPOC_DIBIS0002EP_11202006.pdf   | 203194                                    | no | 5  |
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| 14           | NPL Documents | ESSR_DIBIS0002EP3_08142007.pdf  | 133368                                    | no | 4  |
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| 15           | NPL Documents | ESSR_DIBIS0002EP5_07092007.pdf  | 547014                                    | no | 10 |
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| 16           | NPL Documents | ESSR_DIBIS0002EP_10122005.pdf   | 1113486                                   | no | 17 |
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| 29           | NPL Documents | Genbank_GI21281729_05312002.pdf | 3295060                                   | no | 1359 |
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| 30           | NPL Documents | Gendel_13_1996.pdf              | 959676                                    | no | 15   |
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| 33           | NPL Documents | Gilbert_100_2002.pdf            | 196521                                    | no | 11   |
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| 34           | NPL Documents | Gill_187_2005.pdf               | 556796                                    | no | 13   |
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| 37           | NPL Documents | Gjoen_8_1997.pdf                | 341498                                    | no | 6    |
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| 38           | NPL Documents | Golden_41_2003.pdf     | 48626                                        | no | 2  |
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| 39           | NPL Documents | Gravet_436_1998.pdf    | 483896                                       | no | 7  |
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| 42           | NPL Documents | Grundmann_368_2006.pdf | 676989                                       | no | 12 |
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| 44           | NPL Documents | Guatelli_2_1989.pdf    | 2017524                                      | no | 10 |
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| 46           | NPL Documents | Haines_93_2000.pdf     | 915573                                       | no | 10 |
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| 52           | NPL Documents | Hannis_3926_2000.pdf  | 990404                                   | no | 12 |
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| 53           | NPL Documents | Hanssen_46_2006.pdf   | 259355                                   | no | 13 |
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| 54           | NPL Documents | Hasebe_67_2002.pdf    | 425976                                   | no | 5  |
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| 55           | NPL Documents | Hassan_26_2003.pdf    | 842094                                   | no | 7  |
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| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NPL Documents | Higgins_894_1999.pdf    | 1250917                                  | no | 19 |
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| 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NPL Documents | Hill_95_1998.pdf        | 193844                                   | no | 6  |
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| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NPL Documents | Hiramatsu_9_2001.pdf    | 719036                                   | no | 8  |
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| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                         |                                          |    |    |
| 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NPL Documents | HOFFMANN_99_2002.pdf    | 326432                                   | no | 6  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                         | 9afdddc13fb0b29dda8a6a8bc6ccd90154561c37 |    |    |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                         |                                          |    |    |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                         |                                          |    |    |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NPL Documents | HOFSTADLER_242_2005.pdf | 1900416                                  | no | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                         | ce675e0cf6de9ca4ced0ca0a7f3c0877263b0300 |    |    |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                         |                                          |    |    |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                         |                                          |    |    |
| Total Files Size (in bytes):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                         | 85301860                                 |    |    |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |               |                         |                                          |    |    |